Homework Assignment 3:

- (3 Points) Problem 5.28
- (3 Points) Problem 5.30
- (3 Points) Problem 5.33
- (15 Points) Problem 5.36, except (d)
- (8 Points) Problem 5.40 (c)
- (10 Points) Problem 5.42
- (8 Points) Problem A1. Construct the state-transition diagram of a DFA that accepts the following language over the alphabet \{ 0, 1 \}:

The set of all strings when interpreted as a binary integer is a multiple of 6, e.g., strings 0, 110, 1100, and 10010 are in the language.